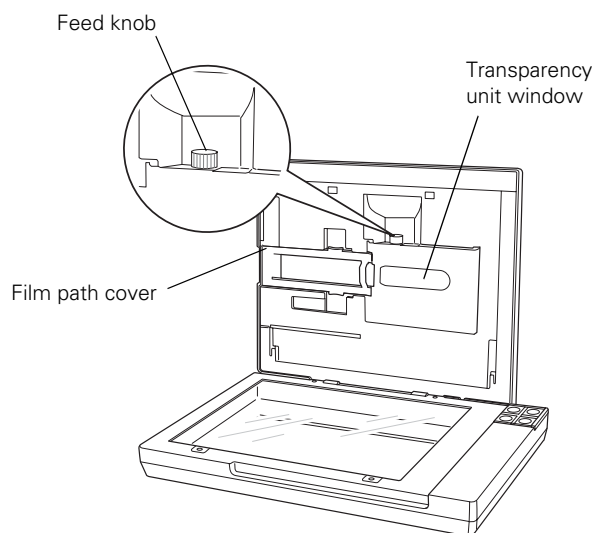
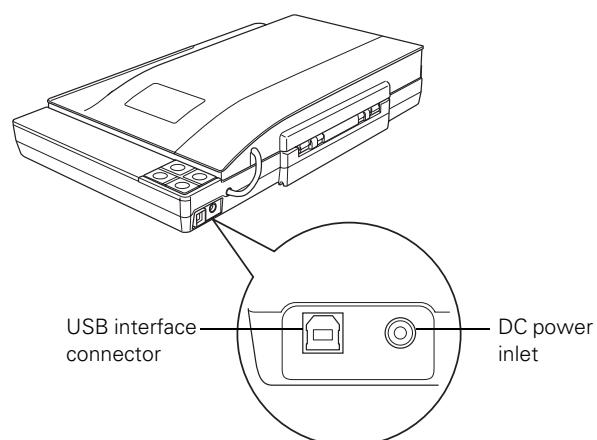
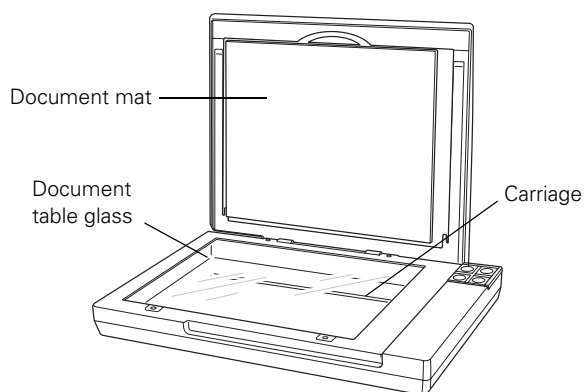
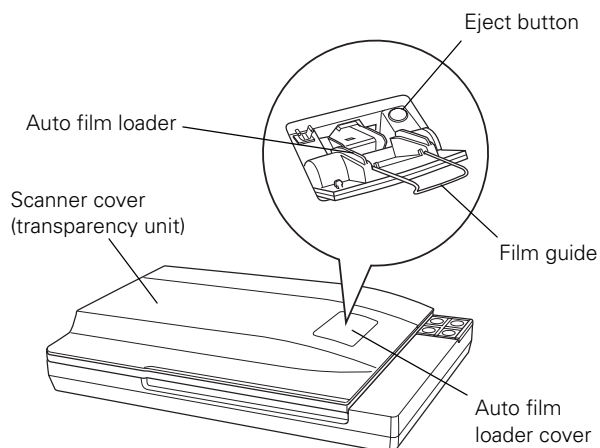
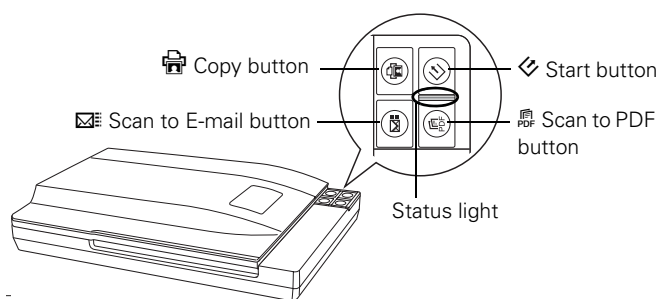


Scanner Parts



Scanner Specifications

General

Scanner type	Flatbed color
Photoelectric device	Color CCD line sensor
Effective pixels	40,800 × 56,160 pixels at 4800 dpi
Document size	Documents or photos: 8.5 × 11.7 inches (216 × 297 mm) US letter or A4 size
	Film or slides: 35 mm film strips (3 frames at a time using film holder, 6 frames at a time using auto film loader); 35 mm slides (2 slides at a time)

Scanning resolution	4800 dpi (main scan) 9600 dpi with Micro Step Drive™ (sub scan)
Output resolution	50 to 6400, 9600, and 12800 dpi (50 to 6400 dpi in 1 dpi increments)
Scanning speed (reflective)	Approximately 4.6 msec per line at 600 dpi Approximately 21.5 msec per line at 4800 dpi
Image data	16 bits per pixel per color internal 16 bits per pixel per color external (maximum)
Interface	One USB 2.0 Hi-speed port
Light source	White cold cathode fluorescent lamp

Mechanical

Dimensions	Width: 16.9 inches (430 mm) Depth: 11 inches (280 mm) Height: 2.9 inches (73 mm)
Weight	Approx. 6.2 lb (2.9 kg)

Electrical

Note:

Check the label on the AC adapter or on the back of the scanner for voltage information.

Scanner

Rated voltage	DC 13.5 V
Rated current	1.5 A
Power consumption	20 W operating 13.5 W stand-by mode 4.1 W sleep mode

AC Adapter (A391UC)

Rated input voltage	AC 100 to 120 V
Rated input current	0.6 A
Rated frequency	50 to 60 Hz
Rated output voltage	DC 13.5 V
Rated output current	1.5 A

Environmental

Temperature	Operating	41 to 95 °F (5 to 35 °C)
	Storage	–13 to 140 °F (–25 to 60 °C)
Humidity	Operating	10 to 80%, without condensation
	Storage	10 to 85%, without condensation
Operating conditions	Ordinary office or home conditions. Avoid operating the scanner in direct sunlight, near a strong light source, or in extremely dusty conditions.	

USB Interface

Interface type	Universal Serial Bus Specification Revision 2.0
Interface standard	Full Speed mode (12 Mbits per second) and Hi-Speed mode (480 Mbits per second) of Universal Serial Bus Specification Revision 2.0.
Connector type	One Type B port

Standards and Approvals

Scanner





EMC	FCC Part 15 Subpart B Class B CAN/CSA-CEI/IEC CISPR 22 Class B
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AC Adapter

Safety	UL60950-1 CAN/CSA-22.2 No. 60950-1
EMC	FCC Part 15 Subpart B Class B CAN/CSA-CEI/IEC CISPR22 Class B

Using the Scanner Buttons

Before using the scanner buttons, make sure you have installed Epson Scan and the other software that came with the scanner. For details on using the buttons, see the *Start Here* sheet.

Button	Function
 Start	Scans and saves the captured image or document.
 Copy	Scans and sends the captured image or document to the Epson Copy Utility.
 Scan to E-mail	Scans and sends an e-mail message with the scanned image or document attached.
 Scan to PDF	Scans an image or document and saves it as a PDF file.

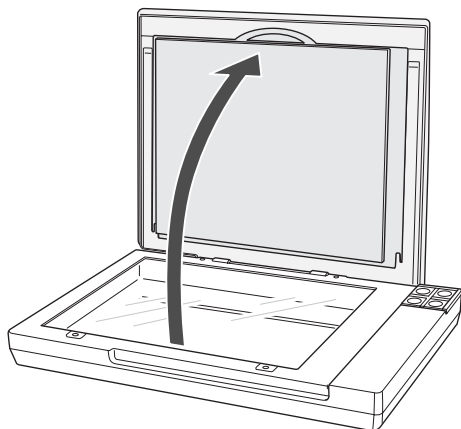
Placing Documents or Photos

Caution:

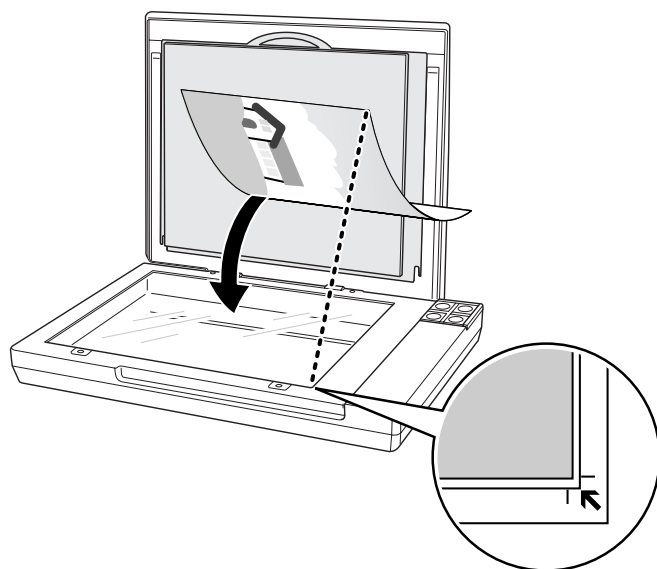
Do not place heavy objects on the document table glass and do not press the glass with too much force.

1. Open the scanner cover.

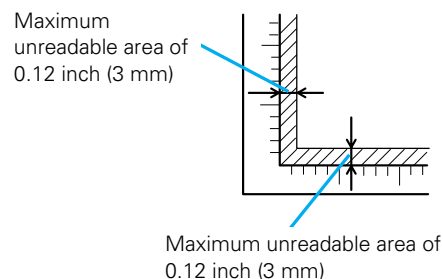
Make sure the document mat is installed inside the cover. If it is not installed, see page 8 for instructions.



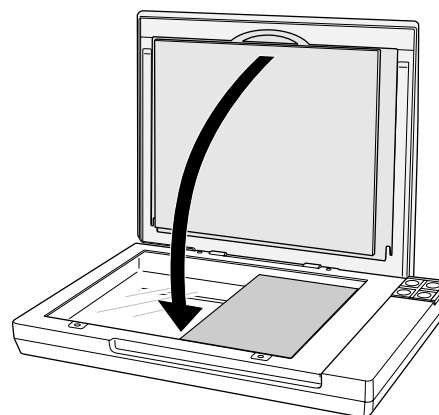
2. Place your document or photo on the document table, face down on the glass. Make sure the upper left corner of the document or photo is against the corner of the scanner, next to the arrow mark.



3. An area 0.12 inch (3 mm) from the horizontal and the vertical sides of the scanner glass cannot be scanned. If you place a document in the corner of the document table, move it up and in slightly to avoid cropping.



4. If you are scanning multiple photos at once, position each photo at least 0.8 inch (20 mm) apart from the others.
5. Close the scanner cover gently so that your original does not move.



Note:

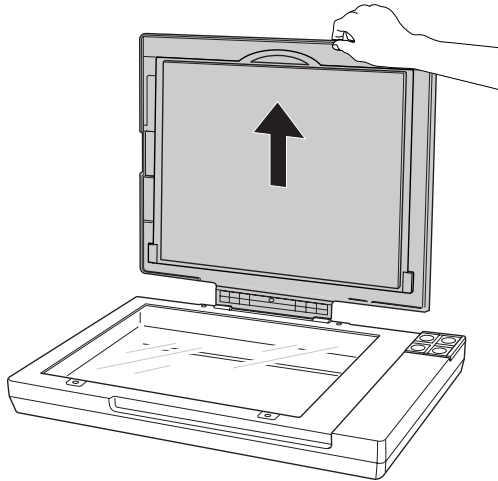
Always keep the document table clean.

Do not leave photos on the document table for an extended period of time as they may stick to the glass.

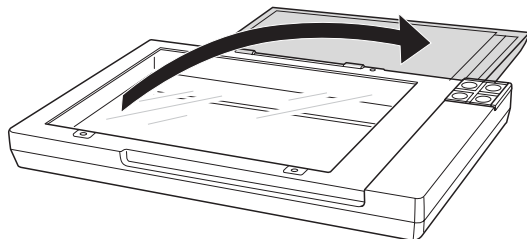
Placing Large or Thick Documents

When you need to scan a large or thick document, you can either raise the lid to its highest position, or open the scanner cover all the way as described below, so that it lies flat next to the scanner.

1. Open the scanner cover.
2. Pull the scanner cover straight up.



3. Lay the cover down flat next to the scanner.



Note:

When scanning without the scanner cover, gently press down on your document to flatten it.

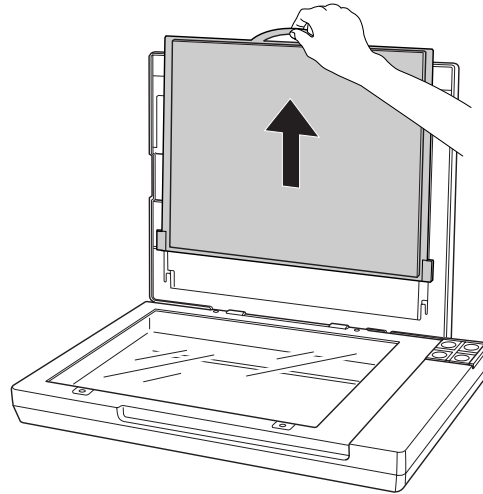
4. When you are finished scanning, replace the scanner cover.

Placing Film or Slides

Removing the Document Mat

To scan film strips or slides, you need to remove the document mat from the scanner cover. This uncovers the transparency unit window so your scanner can use it to scan your film or slides.

1. Open the scanner cover and gently slide up the document mat to remove it.



2. Use a non-abrasive microfiber cloth to wipe the document table before placing your film or slides.

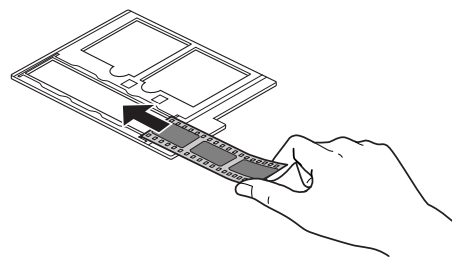
To place film for scanning in the film holder, see the next section.

To place film for scanning in the auto film loader, see page 5.

To place slides for scanning, see page 7.

Placing Film in the Holder

1. Slide your film strip all the way into the film holder with the shiny base side facing down. Your images and any wording on the film strip should appear backwards on the side that faces up.



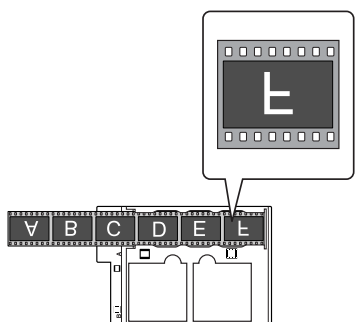
Note:

Hold the edge of the film gently or use gloves to touch the film; otherwise you may damage the film.

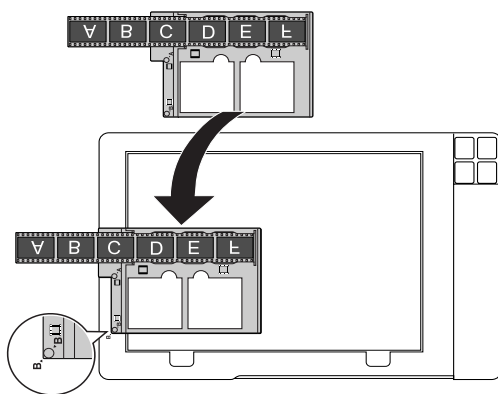
Make sure the white stickers on the back of the film holder and the areas around them are not scratched, dusty, or covered in any way. If the areas are obscured, the scanner may have trouble recognizing your film in Full Auto Mode.

Do not cover the small holes in the film holder.

2. Make sure the film strip is placed as shown.

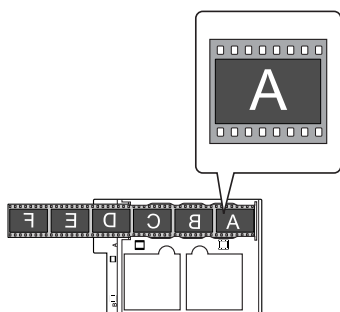


3. **Scanning the first 3 frames of the film strip:**
Place the film holder on the document table so that it is aligned as shown. Make sure the tab labelled “B” on the film holder fits into the area labelled “B” on the scanner.



Scanning the last 3 frames of the film strip:

Remove the film strip from the film holder, then re-insert it with the last frame first. Place the film holder on the document table so that it is aligned as shown below.



4. Close the scanner cover.

When you are finished scanning film, be sure to replace the document mat before scanning documents or photos. See page 8.

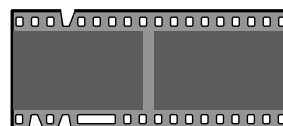
Placing Film in the Auto Film Loader

The Perfection V350 Photo comes with an auto film loader on the scanner cover that lets you load a film strip for scanning automatically. Before loading a filmstrip in the auto film loader, however, make sure it meets these requirements to avoid damaging your film or the film loader:

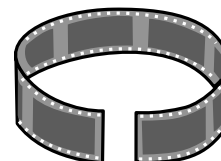
- ☐ The film is dry.
- ☐ The film is not infrared film.
- ☐ The film is 35 mm wide and 2.9 to 9.1 inches (74 to 232 mm) long.
- ☐ The film strip contains at least 2 photos, but no more than 6.



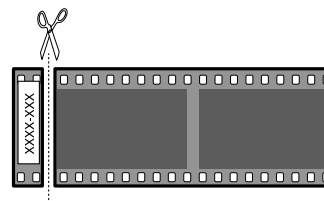
- ☐ The film has no damaged edges or holes along the sides.



- ☐ The film has no folds, ripples, bends, or curls.

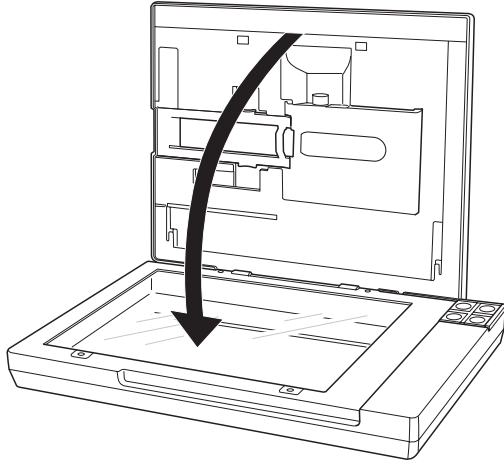


- ☐ The film has no stickers on it. If there is a sticker on the film strip away from the image, you can carefully cut off the part with the sticker.



Note: If you want to scan film that does not meet these requirements, use the film holder, instead. See “Placing Film in the Holder” on page 4.

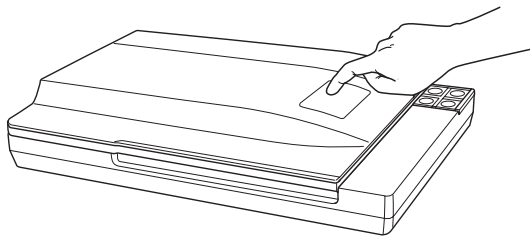
1. Make sure you have installed Epson Scan and have turned on your computer.
2. Remove the document mat. (See page 4.)
3. Close the scanner cover.



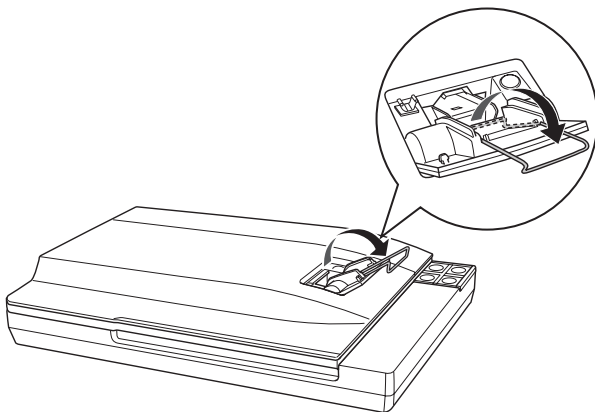
Note:

Make sure nothing is on the document table before you close it.

4. Press and release the back of the auto film loader cover to open it.



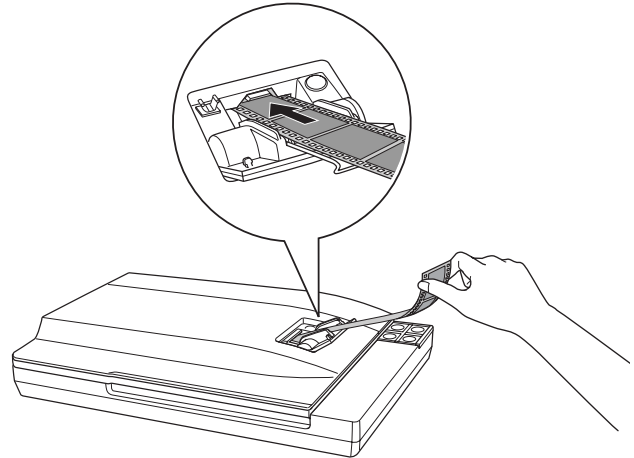
5. Flip out the metal film guide and press it all the way down.



Note:

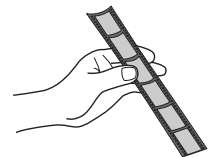
Always open the film guide whenever you use the auto film loader, no matter how short the film strip is; otherwise, it may cause a film jam.

6. Place a film strip into the auto film loader with its shiny base side facing down. Your images and any wording on the film strip should appear backwards on the side that faces up. Slowly slide the film into the loader. Let go of the film when the scanner begins to automatically feed it into position.



Note:


If you have difficulty inserting your film, slightly bend the film so that it straightens out.



Caution:

Hold the edge of the film gently or use gloves to touch the film; otherwise you may damage the film.

When loading starts, let go of the film; otherwise, it may cause a film jam. If the film does not feed into the auto film loader, wait 10 seconds and try again.

Do not touch the film, close the auto film loader cover, press the  Eject button, or open the scanner cover during scanning.

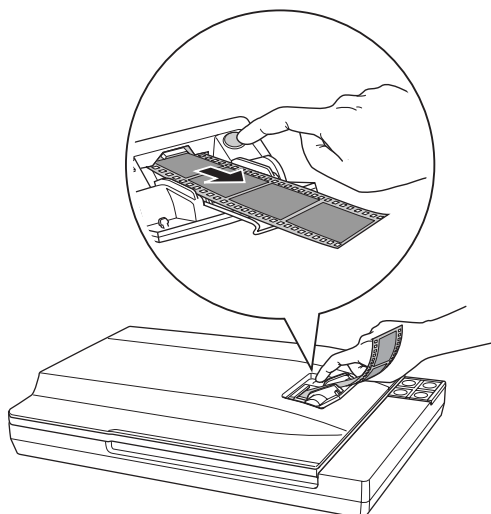
If the Status light is flashing red, film may have jammed.

When you are ready to eject your film, see the next section.

Ejecting Film

When you finish scanning, follow these steps to eject the film from the auto film loader:

1. Press the **▲ Eject** button.



2. Remove the film after the Status light comes on.

Note:

Do not pull out the film. Wait until it is ejected automatically.

Do not turn off the scanner before ejecting film. If you do so accidentally, turn on the scanner again and press the **▲ Eject** button.

3. Flip the metal film guide back in and close the auto film loader cover.

Note:

If the Status light is flashing red, your film may have jammed.

When you are finished scanning film, be sure to replace the document mat before scanning documents or photos. See page 8.

Placing Slides in the Holder

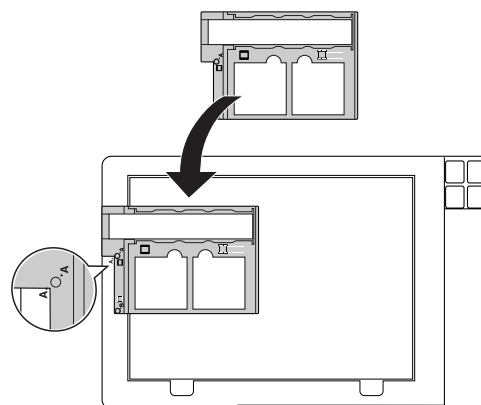
You can scan two 35 mm slides at a time using the slide portion of the film holder.

Note:

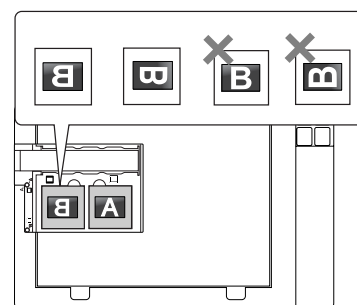
Make sure the white stickers on the back of the film holder and the areas around them are not scratched, dusty, or covered in any way. If the areas are obscured, the scanner may have trouble recognizing your slides in Full Auto Mode.

Do not cover the small holes on the film holder.

1. Place the film holder on the document table so that it is aligned as shown. Make sure the tab labeled **A** on the film holder fits into the area labeled **A** on the scanner.



2. Place one or two slides in the film holder with the shiny base side facing down. Your images should appear backwards on the side that faces up. Your images should be oriented as shown.



Note:

Make sure you place the long edge of the slide in the film holder as shown above, for both landscape and portrait-oriented photos.

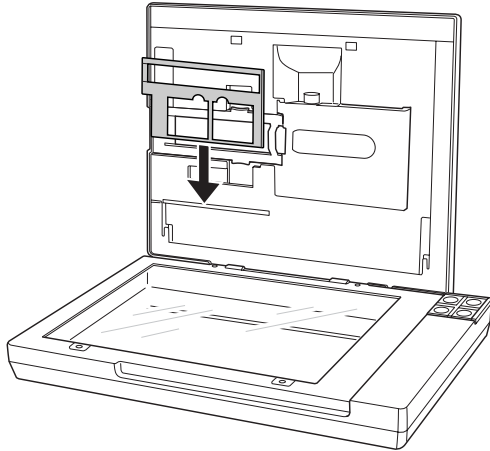
3. Close the scanner cover.

When you are finished scanning slides, be sure to replace the document mat before scanning documents or photos. See page 8.

Storing the Film Holder

When you are not using the film holder, you can store it inside the scanner cover.

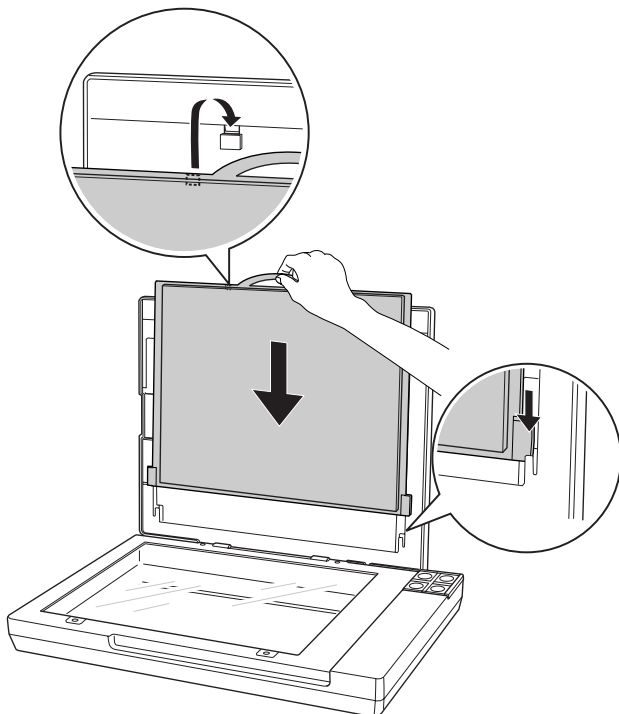
1. Open the scanner cover and remove the document mat.
(See page 4.)
2. Slide the film holder into the scanner cover.



3. Replace the document mat. See the next section for instructions.

Replacing the Document Mat

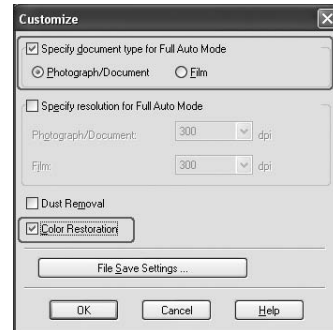
Replace the document mat by sliding it into the notches in the scanner cover. Make sure the white surface faces outwards.



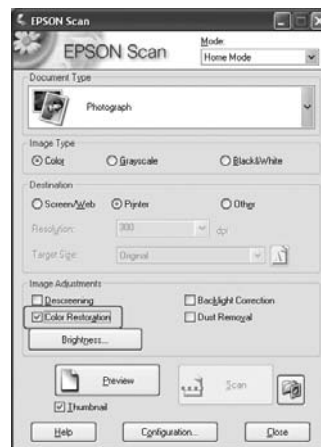
Scanning and Restoring Photos

Using the **Color Restoration** feature in Epson Scan, you can transform old, faded, or badly exposed photos into ones with true-to-life color. You can restore printed photos, negative film, or slides automatically as you scan them.

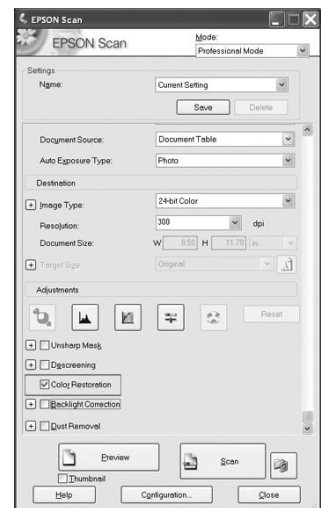
You can use **Color Restoration** in Epson Scan's Full Auto, Home, or Professional Mode. For detailed steps, see the on-screen *User's Guide*.



Full Auto Mode



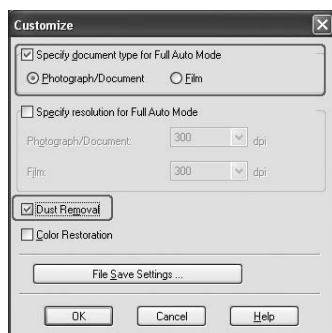
Home Mode



Professional Mode

Removing Dust From Photos, Film, or Slides

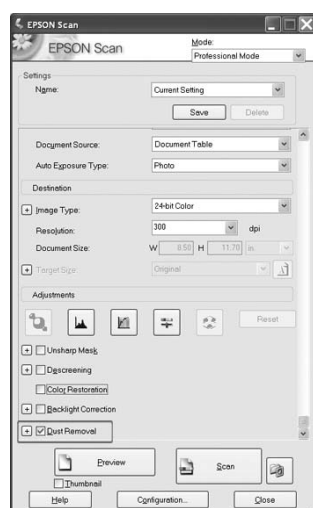
Using the Dust Removal feature in Epson Scan's Full Auto, Home, or Professional Mode, you can virtually "clean" the dust marks from printed photo, film, or slides as you scan them. For detailed steps, see the on-screen *User's Guide*.



Full Auto Mode



Home Mode



Professional Mode

Fixing Backlit Photos

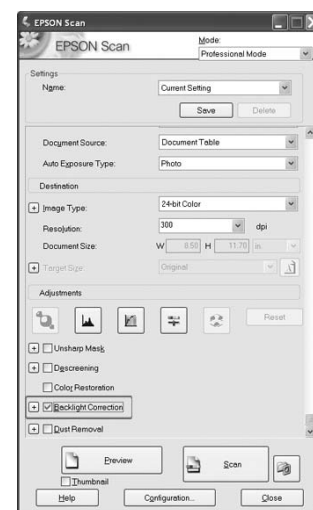
Using the Backlight Correction feature in Epson Scan's Home or Professional Mode, you can remove shadows from photos that have too much background light. You can fix printed photos, film, or slides automatically as you scan them. For detailed steps, see the on-screen *User's Guide*.

Note:

Backlight Correction is not available in Full Auto Mode.



Home Mode



Professional Mode

Reading the Status Light

If an error occurs, the scanner stops operating and the status light flashes red. This indicates the scanner is not connected to your computer properly or your software is not fully installed. See the *Start Here* sheet that came with your scanner for instructions on installing the scanner software and connecting the scanner to your computer.

Also try unplugging the scanner and then plugging it back in.

If the scanner light is still flashing:

- ☐ The scanner may be malfunctioning.
- ☐ The scanner lamp may need to be replaced.

Contact Epson. See the on-screen *User's Guide* for details.

Transporting the Scanner

Before transporting the scanner for a long distance or storing it for an extended period of time, the scanner’s carriage needs to be in the center position to prevent damage.

1. Make sure the carriage is in the center position of the scanner.
 - ❑ If the scanner is plugged in and connected to your computer, the carriage will move to the center position after scanning.
 - ❑ If the scanner is turned off and the carriage is not in the center position, plug in the scanner, connect it to your computer, and wait about 15 seconds for the carriage to move to the center position.
2. Unplug the AC adapter to turn the scanner off.
3. Disconnect the USB cable.
4. Attach the packing materials that came with the scanner, then repack the scanner in its original box or a similar box that fits the scanner snugly.

Related Documentation

CPD-21605	Epson Perfection V350 Photo <i>Start Here</i> sheet
CPD-21604	Epson Perfection V350 Photo <i>Notices</i> booklet
CPD-21600R1	Epson Perfection V350 Photo Scanner Software CD-ROM
CPD-21944	<i>Important Information About Your Cables</i>
CPD-21749	<i>Film Strip Precautions</i>
—	Epson Perfection V350 Photo <i>User’s Guide</i> (HTML on CD-ROM)